CavitySliders®

Bi-Parting Cavity Slider with SmartMount
Installation Instructions

MidWay® · Ultimate® · SoundStop®* · TimberFormed® · EasyOpen® WC · AluSealed® · SofStop®

* Extra data sheets are required for these units.

Before you Start

Wall construction
The wall referred to in these instructions is ex 100mm x 50mm wooden framework. In reality this may mean a 94mm x 47mm, 90mm x 45mm or 140 x 45mm (Ultimate®) wooden framework. Although not shown, the unit may also be fitted into other types of wall materials (steel, concrete, brick, etc.).

For concrete or masonry walls, fix a 100mm x 50mm timber jack stud into the opening on each side. Fix these in place with ø10mm x 98mm long countersunk masonry anchors at 400mm centres.

The lintel should be straight and level.
The jack studs should be straight and plumb to the lintel.

Lintel/trimmer sizes.
CS Cavity Sliders are non-loadbearing. The lintel (or trimmer, ceiling joist or other structural component) directly above the track must span the full trim size opening width. Timber lintels sized from NZS3604 (NZ) / AS1684 (AU) are acceptable if the weight of the door is less than 75kg/m width of door. If heavier, specific design is required.
Please consult your engineer.

Trim size (hole in the wall framing):
Height: door leaf height + 95mm (All units including SofStop)
Width: (door width x 4) + 10mm
Width: (door width x 4) - 190mm (EasyOpen only)

Standard under door clearance.
With the unit sitting hard on top of the concrete or timber floor, the clearance under the door leaf ranges between 25-32mm (adjustable).
The majority of this clearance is taken up by the floor covering (carpet, tiles etc.).

Modified under door clearance.
If you require **more** than 32mm clearance under the door: pack the cavity unit off the floor by the amount you need.
If you need **less** than 25mm clearance (e.g. polished timber floors) there are two options:

a) CS can supply seals which fit to the bottom of the door.
b) Unit can be made up to 15mm shorter (at time of order).

Above door clearance.
Standard clearance above the door is 9-15 mm.
If you require 3-9mm above the door, this must be requested at time of order.

Contamination of the top track.
Never drill, nail or screw through the centre section of the track. The track running surface must be clean and free of any contamination or damage, e.g paint or dust. The tyres on the carriage should not be chipped, dented or have swarf embedded in the tyre. **Take extra care with the carriages to avoid any damage during the installation process.**

Fixing cavity slider to the floor
Installing the cavity slider 100% plumb and level will **NOT** guarantee a correctly sliding door.
If the wall, lintel, floor and door are not all plumb, level and straight, the door may slide incorrectly into the pocket.

For this reason, the skirting block fixing (at the base of the pocket frame behind the split jambs) should only be secured once you have ensured the door is running parallel to the cavity pocket.

Remove packaging and check components.
Position the cavity unit so the aluminium back stud is parallel with the floor and remove the transport support cleat (if fitted) from the bottom plate assembly.

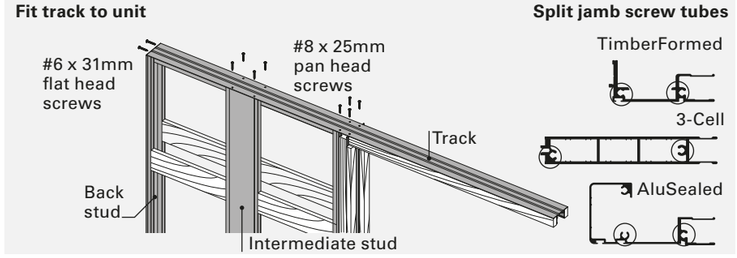
Check for any transportation damage. If anything looks damaged or out of specification or you are unsure, contact CS before beginning your install.

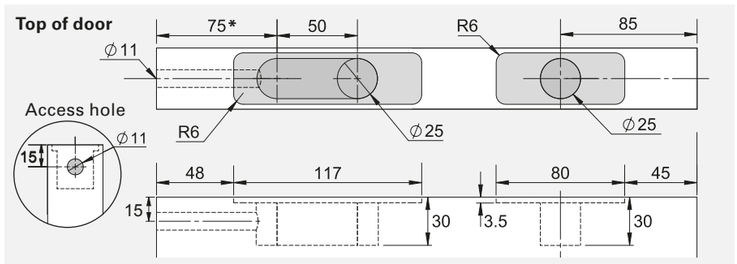
Preparation

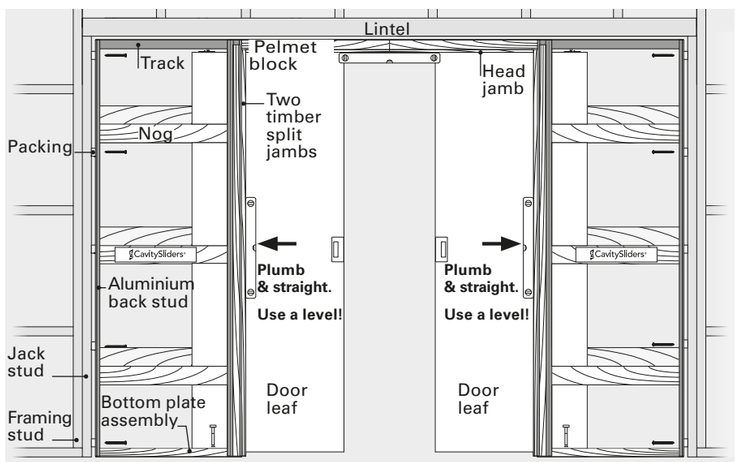
1. Fit the tracks (if not yet fitted).
Check inside the track and clean out all dust and debris. Remove all temporary frame packers.

Slide the track into the unit and fix to the aluminium split jambs, back stud and intermediate studs (if fitted).

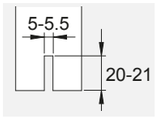
Make sure that the track holes line up with the split jamb and intermediate stud screw tubes.







2. Prepare Doors (if not yet fitted).
a) Bottom of the doors:
Cut a groove to the dimensions and tolerance shown. Make it central to the door thickness and absolutely straight.

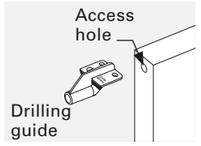


b) Top of the doors:
Prepare SmartMount plate holes to the size and depth as shown below. Make sure they are placed exactly in the centre of the door thickness.

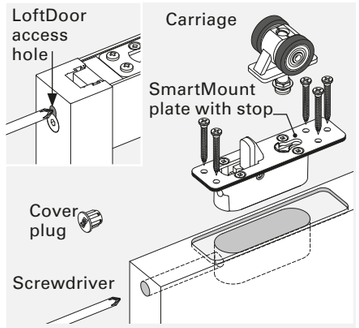
Do not over-machine the holes.

***CornerMeeting Detail**
Front SmartMount plate needs to be set back further. Refer to the additional installation instructions supplied.

c) Front edge of the doors:
Drill Ø11mm access holes as shown. Make sure they are exactly in the centre of the door thickness, run straight and meet the SmartMount plate holes.
A drilling guide is available if required.



d) Fix the SmartMount plates to the doors using the screws supplied.



e) Attach carriages.
Line the rear carriage hanger pin up with the hole in the SmartMount plate. The magnet will draw the pin into the correct position and it will click into place. Repeat for the front carriage.

f) Lock the SmartMount plates.
Insert a screwdriver into the access hole. (This will push the stop down.)

Turn the locking pin 90 degrees clockwise until you hear a click and it has locked into place. Check that the carriage is locked in place.

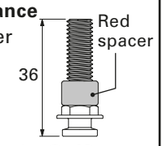
Repeat for the other door. Insert cover plugs to cover access holes.

3. Fit the Doors
(if not already fitted).***(A, B or C)***.

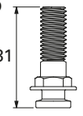
A Standard (non-SofStop)
M6/M8 carriages
Slide the door into the track.

B SofStop® Single (Soft Close)
Check hanger pins.
Depending on the unit you have purchased, you may need to replace the hanger pin that connects the carriage to the SmartMount plate.

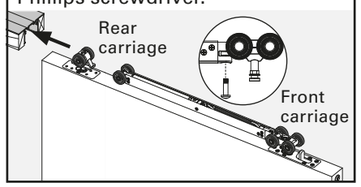
SmartMount with SofStop and 9-15mm Clearance
SmartMount hanger pins are supplied with a red spacer to prevent it being wound up too far and interfering with the SofStop activator in the track.



SmartMount with SofStop and 3-9mm Clearance
Replace the hanger pin on the front carriage with the short (31mm) pin supplied in the SofPack.



Attach the carriages to the SmartMount plates.
Attach SofStop cassette to front carriage with M5 pan head machine screw. Tighten with #2 Phillips screwdriver.



C SofStop® Twin (Soft Open & Close)
DO NOT LINE THE POCKET UNTIL THE SOFSTOP MECHANISM HAS BEEN INSTALLED AND TESTED.

Slide rear activator to middle of pocket **before** fitting door.

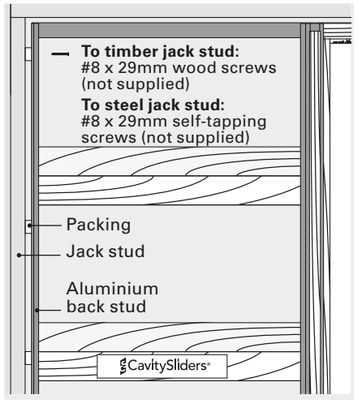
Continue with instruction **3B** to fit the door.

Installation

4. Place units into framed opening.
Connect the tracks together with the alignment pins provided. These are already fitted into the track screw tubes on one of the units.

Plumb up the two split jambs.
Use a level!

5. Fix the aluminium back studs.
While keeping the timber split jambs plumb, pack behind the aluminium back studs. Screw the aluminium back stud including the packing to the jack stud through the pre-punched holes.



6. Level the tracks.
The tracks must be fitted level and straight. Pack above the tracks where necessary.

Removable Head Jamb: Fix the tracks to the lintel at 600mm centres through the aluminium flanges on both sides, starting 50mm back from the track meeting point. The screw heads must pull hard up under the aluminium flanges.

Timber lintel: #8 screws to penetrate lintel by at least 25mm (not supplied)

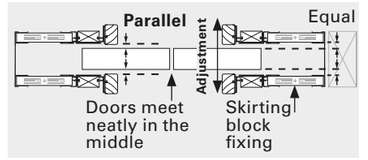
Light steel lintel (under 2mm): #8 self-tapping screws to penetrate lintel by at least 5mm (not supplied)

Heavy steel lintel: M5 machine screws (not supplied).

Fixed Head Jamb: The head jamb does not need to be removed at a later date for access. Screw holes can be filled and painted over.

7. Fix the bottom plate assembly.
The doors must slide parallel with the bottom plate assembly. If not, gently tap the front of the bottom plates to the left or right until they do.

The doors should now slide smoothly and butt neatly together when closed.

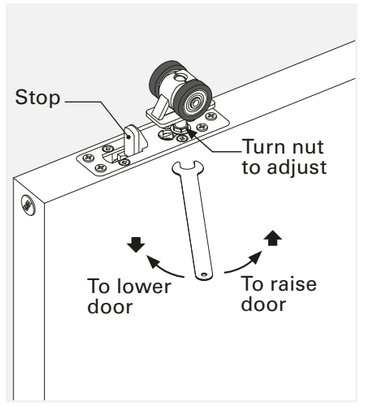


Fix the bottom plate assemblies to the floor:

To **concrete** floors:
Use ø8mm x 90mm masonry anchors through the pre-drilled holes in the skirting fixing blocks of the bottom plate. (See the red stamped arrow on the timber).

To **timber** floors: Use ø3.15mm x 75mm nails on either side in the centre of the skirting fixing block thickness. (See the red stamped ⊕ on the timber). Pre-drill ø3mm holes for these nails.

8. Adjust the doors.
Use the spanner supplied to adjust the door for height and plumb.



Note: The top of the hanger pin screws into a self-locking Nyloc type nut in the carriage. For the assembly to remain in its adjusted position over time the hanger pin must be screwed into the nylon locking portion of the nut by at least 3 full turns.

If the red spacer on the hanger pin hits the carriage you cannot wind it up any further.

For 3-9mm Clearance or Full-Height Detail (non-SofStop): remove the spacer.
You can request a shorter or longer pin if required.

For SofStop: replace the pin with the shorter one supplied in the SofPack.

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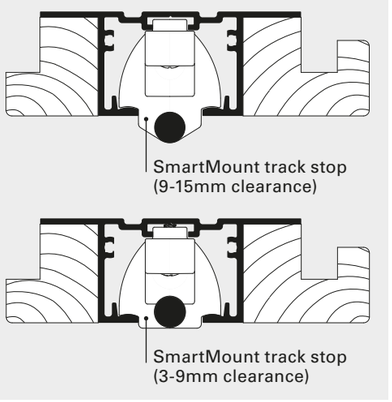
9. Fit the track stops.

The stop fitted to the mount plate is what contacts the track stop. Using a screwdriver, loosen the track stops, slide them into the track and push them towards the cavity pockets.



Gently slide each door towards the centre closed position (where the tracks meet) and then open again.

Lock the track stops in place and test that the doors finish where you need them to stop.

SofStop® Single (Soft Close)

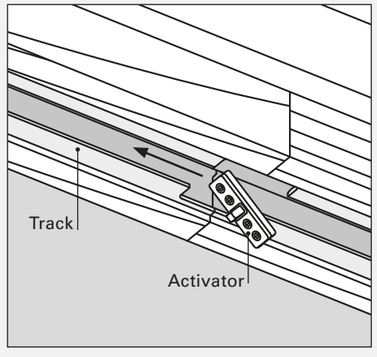
(Repeat steps for each door)

Note: Single Soft Close requires one front activator only.

Twin Soft Open & Close requires two activators for each cavity unit. The rear activators should already be in each track above the pockets (**Step 3**).

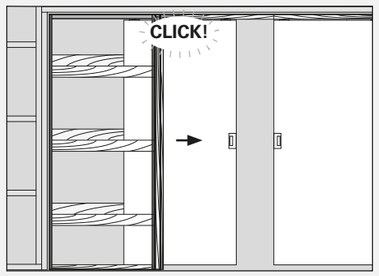
10. Set front activator position.

a) Open one door and insert the front activator into the track.
Slide it to about half way between the track joining point and the split jamb.
Tighten 2 grub screws.



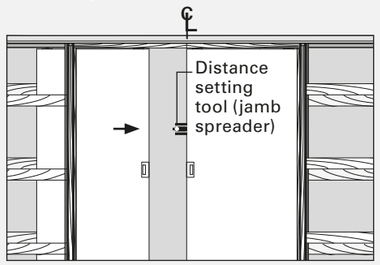
NOTE: If you have a Fixed Head Jamb and have screwed through the track you will need to remove some screws to insert the activator. Reinsert when SofStop installation is complete.

b) Gently close the door until the pickup mechanism goes past the activator. You will hear a click.



c) Open the door again and loosen the activator grub screws. The cassette is now charged.

d) Hold the distance setting tool against the other closed door. Gently close the door.



The activator will slide along the track into the correct position.

e) Without moving the activator, open the door and securely tighten all four grub screws

f) Repeat for the second door.

WARNING: If the door soft closes, but does not come to a stand still on the track stop, you risk breaking the hook on the soft close mechanism.

If you use the distance setting tool correctly this will be avoided.

SofStop® Twin Only

11. Set rear activator position.

a) Close the door and move the rear activator into the approximate centre of the pocket.
Do not tighten grub screws.

b) Position the distance setting tool inside the back stud and gently open the door onto it.
The activator will slide along the track into the correct position.
The rear activator is now positioned. Securely tighten all four grub screws.
Note: Twin SofStop cannot be adjusted after installation of wall linings.

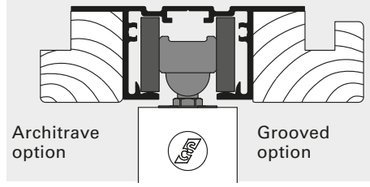
c) Repeat for the second door.

12. Fit the head jambs (if required).

Fixed Jamb Option:

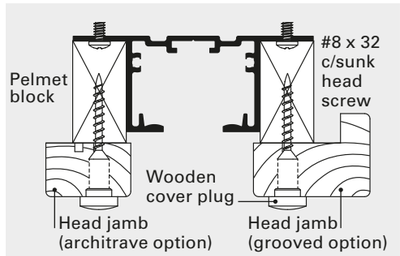
Head jamb is already in place and does not require fitting.

Fixed Head Jamb

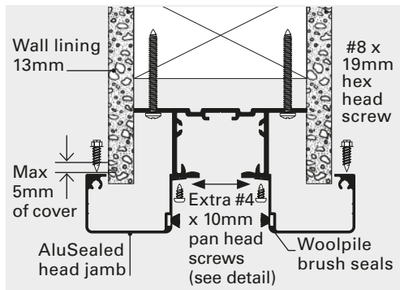


Removable Head Jamb Option:
Before fitting head jambs, adjust the door for plumb and for the desired clearance under the door (**Step 8**).

Slide the head jamb into place between the vertical jambs. Flush up the joints, then screw into place. Gently tap wooden plugs to cover the screw heads.

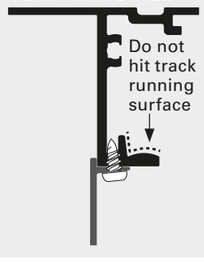


AluSealed Head Jamb Option:
Screw in place through both ends at the top of the head jambs.



AluSealed head jambs longer than 1 metre require an extra screw to hold the centre of the jamb to the bottom of the track as shown. Spot through the pre drilled hole in the flange with a ø2.5mm drill into the bottom of the track.

AluSealed Detail



Ensure track running surface is not damaged:
Hole must not be larger than ø2.5mm.

After installation but before lining, **clean the full length of the inside running surface of the track with a soft rag.** **TAPE UP THE TRACK to ensure no dust or debris enter the track or SofStop mechanism during building works.** Warranty does not cover damage arising from paint or debris in the track, wheels or mechanism.

Finishing

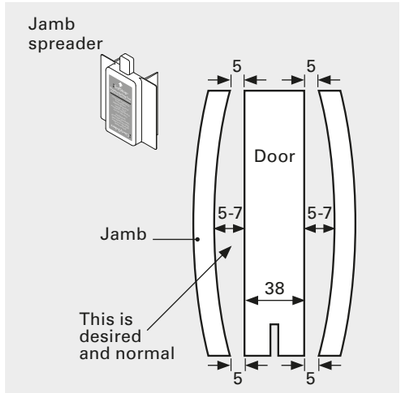
13. Fixing the wall linings.

NB: If installing Twin SofStop, DO NOT line the pocket until the SofStop mechanism has been installed and tested.

The cavity slider comes with the split jambs intentionally 'rounded out' to accommodate any slight bowing of the door leaf and to allow door hardware to clear the jambs.

The standard clearance is 5-7mm between door and split jamb using a 38mm door.

The supplied 'jamb spreader' should be inserted into the cavity slider opening prior to fixing wall linings and architraves.



CS Ultimate: use wedges to maintain clearance.

Wherever possible, linings should only be glued on.

Use short drywall screws to hold linings in place until glue is dry.

10mm linings: use **maximum 25mm** long drywall screws.

13mm linings: use **maximum 28mm** long drywall screws.

Sealing the inside of plasterboard linings and MDF architraves is recommended.

AluSealed: When fixing wall linings above the head jambs do not allow the linings to finish lower than 5mm below the top of the head jamb.

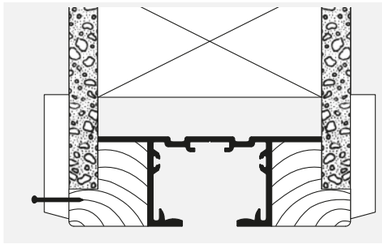
14. Fitting architraves.

Nail the architraves to the four vertical jambs and the two horizontal head jambs.

Use panel pins with a maximum length of 25mm plus the thickness of the architrave.

Nail the back of the architrave to the split jamb blocks using panel pins with a maximum length of the combined thickness of the architrave and wall linings plus 15mm.

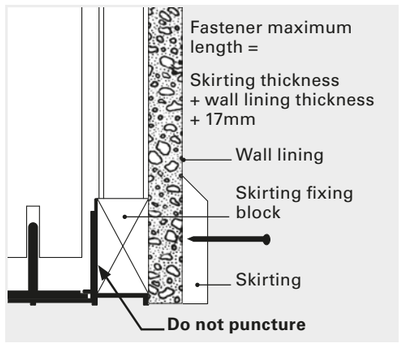
Note (for removable head jambs): Nail the horizontal architraves to the head jambs but **do not** nail them to the timber pelmet blocks above the head jamb.



15. Fitting skirting.

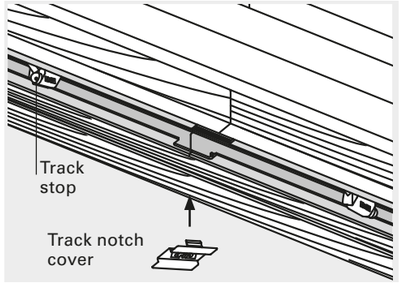
Make sure that you do not puncture the aluminium extrusion of the bottom plate assembly. Use panel pins to fix the skirting to the fixing block.

Do not hammer too hard against the bottom plate. This may damage the channel where the door slides.



16. Insert the track notch cover

if required.



17. Removing the Doors

Removable Head Jamb

Begin by removing the architrave and head jamb from one side (if fitted).

Make a thin knife cut where any paint joins two components so as not to tear existing paint work.

SmartMount/ Fixed Jamb Option:

If your head jamb is fixed it does not need to be removed for access.

Remove the cover plug and push a screwdriver into the door to lower the stop on the SmartMount plate.

Use the screwdriver to turn the locking screw anti-clockwise one quarter turn and unlock the hanger pin.

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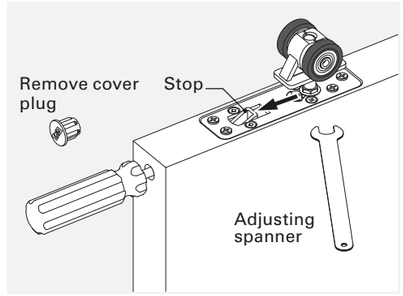

Keep the screwdriver in place while using the spanner to slide the hanger pin sideways.

Swing the door slightly out of the track and remove the screwdriver.

The whole carriage (including the hanger pin) will now disengage from the SmartMount plate.

Repeat for the rear SmartMount plate.

Slide the carriages towards the centre of the opening to remove.
Loosen the track stops fitted in the middle where the doors meet so they can be removed from the track.

Cavity Sliders Auckland Head Office
5 - 7 Rakino Way, Mt Wellington 1060
T +64 9 276 0800
E info@csfordoors.co.nz
W **www.cavitysliders.co.nz**

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